

DAFTAR PUSTAKA

- Abramzon, A.A., and Gaukhberg, R.D. (1993). Surface tension of salt solutions. *Zhurnal Prikladnoj Khimii*, 66(9), 2145-2156.
- Aries, R. S. and Newton, R. D. (1955). Chemical Engineering Cost Estimation. 1st ed. New York: McGraw-Hill Book Company. doi: 10.1021/ed033p194.1.
- AWMA. (1992). Air Pollution Engineering Manual. New York: Van Nostrand Reinhold.
- Bajpai P. (2015). The Control of Microbiological Problems. Pulp and Paper Industry, 103–195. <https://doi.org/10.1016/B978-0-12-803409-5.00008-2>.
- Bidar, B., & Shahraki, F. (2018). Energy and exergo-economic assessments of gas turbine based CHP systems: A case study of SPGC utility plant. *Iranian Journal of Chemistry and Chemical Engineering (IJCCE)*, 37(5), 209-223.
- BPS. (2023). Penduduk Usia Kerja Menurut Jenis Kelamin di Kabupaten Gresik, 2017-2019. Available at: <https://gresikkab.bps.go.id/statictable/2020/06/11/158/penduduk-usia-kerja-menurut-jenis-kelamin-di-kabupaten-gresik-2017-2019.html> (Accessed: 5 November 2023).
- Brahim, K., Rouissi, K., Soussi-Baatout, A., & Khattech, I. (2021). Thermochemistry and kinetics of the aspect of diammonium hydrogen phosphate precipitation in phosphoric acid solution. *Journal of Thermal Analysis and Calorimetry*, 143(4), 3173–3179. <https://doi.org/10.1007/s10973-020-09399-z>
- Brown, G. G. (1950). Unit Operations. 1 sat. New Delhi: John Willey & So.
- Brownell, L. E., & Young, E. H. (1959). Process equipment design: vessel design. John Wiley & Sons.
- Chase, M.W., Jr. (1998). NIST-JANAF Thermochemical Tables, Fourth Edition, J. Phys. Chem. Ref. Data, Monograph 9, 1-1951.
- Coulson and Richardson. (2005). Chemical Engineering Design 4th ed. Elsevier Butterworth-Heinemann, Linacre House, Jordan Hill.
- Couper, J. R., Penney, W. R., Fair, J. R., Walas, S. M. (2012). Chemical Process Equipment: Selection and Design. 3th edition. Elsevier Butterworth-Heinemann.
- Egan, E.P., and Luff, B.B. (1955). Measurements at 15° to 80° C. - Density of Aqueous Solutions of Phosphoric Acid. *Industrial & Engineering Chemistry*, 47 (6), 1280-1281. <https://doi.org/10.1021/ie50546a062>.
- Evans, F. L. (1974). Equipment Design Handbook for Refineries and Chemical Plants 2nd ed. Gulf Publishing Company, Houston, Texas.

- Fairchild, W. D. (1988). *Process for producing granular diammonium phosphate*. (US Patent No. 4.744.965). US Patent and Trademark Office.
- Foust, A. S., Wenzel, L. A., Clump, C. W., Maus, L., Anderson, L. B., (1980). *Principles of Unit Operations*. 2nd edition. John Wiley & Sons, New York.
- Gargouri, M., Chtara, C., Charrock, P., Nzihou, A., & El Feki, H. (2011). Synthesis and physicochemical characterization of pure diammonium phosphate from industrial fertilizer. *Industrial and Engineering Chemistry Research*, 50(11), 6580–6584. <https://doi.org/10.1021/ie102237n>
- Harriott, P. (2003). *Chemical Reactor Design*. 2nd ed. New York: Marcel Dekker, Inc.
- Hiroharu, K., Niichi, N., and Masaru, H. (1968). On the turbulent heat transfer by free convection from a vertical plate. *International Journal of Heat and Mass Transfer*, 11(7):1117–1125.
- Hugot, E. (1986). *Handbook of Cane Sugar Engineering*. Amsterdam: Elsevier Science Publishers H.V.
- Incitec Pivot Fertilisers. (2022). *IPF Product Fact Sheet MAP and DAP*. April.
- Indian Standard 6833. (1973). Specification for Buckets for Bucket Elevator.
- Indian Standard 7167. (1974). Code for Selection and Use of Bucket Elevator.
- Indian Standard 8730. (1997). Classification and Codification of Bulk Materials for Continuous Material Handling Equipment.
- Indian Standard 11592. (2000). Selection and Design of Belt Conveyors.
- Kemenperin. (2015). *Industri Petrokimia Terintegrasi Diberi Insentif*. Available at: <https://kemenperin.go.id/artikel/13550/Industri-Petrokimia-Terintegrasi-Diberi-Insentif> (Accessed: 13 Juli 2024).
- Kern, D. Q. (1959). *Process Heat Transfer*. McGraw-Hill Book Company.
- Kern, D. Q. (1965). *Process Heat Transfer International Student Edition*. Japan: McGraw-Hill Book Company.
- Knoema. (2021). *Indonesia - Diammonium phosphate (DAP) - import quantity*. Available at: <https://knoema.com/atlas/Indonesia/topics/Agriculture/Fertilizers-Import-Quantity-in-Nutrients/Diammonium-phosphate-import> (Accessed: 7 November 2023).
- Levenspiel, O. (1999) *Chemical Reaction Engineering*. John Wiley & Sons, Inc.
- Ludwig, E. E. (1999). *Applied Process Design for Chemical and Petrochemical Plants Vol.1-3*, 3rd ed. Texas: Gulf Publishing Co.

- Maqsood, M.A., Zuhra, E., Ashraf, I., Rasheed, N., Shah, Z.H. (2022). Chapter 2 - Sources of nitrogen for crop growth: Pakistan's case. *Nitrogen Assessment: Pakistan as a Case-Study*, 13-28. <https://doi.org/10.1016/B978-0-12-824417-3.00005-8>.
- McCabe, W. L., Smith, J. C., and Harriott, P. (2005). Unit Operation of Chemical Engineering 7th ed. New York: McGraw-Hill.
- Metcalf & Eddy. (2003). Wastewater Engineering: Treatment and Reuse. 4th ed. New York: McGraw-Hill.
- Mullin, J. W. (1961). Crystallization 4th ed. Butterworth-Heinemann, Jordan Hill, Oxford.
- Nadarajan, S., Sukumaran, S. (2021). Chapter 12 - Chemistry and toxicology behind chemical fertilizers. *Controlled Release Fertilizers for Sustainable Agriculture Academic Press*, 195-229. <https://doi.org/10.1016/B978-0-12-819555-0.00012-1>.
- OSHA. (2000). Process Safety Management. OSHA 3132. U.S. Department of Labor, Occupational Safety and Health Administration, Washington, DC. Available at: <https://www.osha.gov/sites/default/files/publications/osha3132.pdf> (Accessed: 11 Mei 2024).
- Peacock, et al. (2006). *Method For Producing A Fertilizer With Micronutrients* (European Patent No. 1.630.150.B1). European Patent Office.
- Pertokimia-Gresik. (2023). Kapasitas Produksi, Petrokimia Gresik. Available at: <https://petrokimia-gresik.com/page/kapasitas-produksi> (Accessed: 7 November 2023).
- Perry, R. H., and Green, D. W. (1997). Chemical Engineers' Handbook. 7th ed. Edited by R. H. Perry. New York: McGraw-Hill.
- Powell, S. T. (1954). Water Conditioning for Industry. New York: McGraw-Hill Book Company.
- Rase, H. F. (1977). Chemical Reactor Design for Process Plant, Vol. 1, Principles and Techniques. New York: John Wiley and Sons.
- Rajesh, S. C., Gowda, B. S. and Narasimham, G. S. V. L. (2016). Scraped Surface Heat Exchanger (SSHE). International Journal of Engineering Research and General Science 4(6), pp. 297–305.
- Salladay, et al. (1986). *Pressure Reactor For Producing Diammonium Phosphate* (US Patent No. 4.619.684). US Patent and Trademark Office.
- Sander, R. (2015). Compilation of Henry's law constants (version 4.0) for water as solvent.
- Sander, S. P., Abbatt, J., Friedl, R. R., Barker, J. R., Burkholder, J. B., Golden, D. M., Huie, R. E., Kolb, C. E., Kurylo, M. J., Moortgat, G. K., Orkin, V. L., & Wine, P. H. (2011). Chemical kinetics and photochemical data for use in atmospheric studies evaluation Nb.

<http://jpldataeval.jpl.nasa.gov>.

- Schall, M. J. and Myerson, A.S. (2019) ‘Solutions and Solution Properties’, in A.S. Myerson, D. Erdemir, and A.Y. Lee (eds.) *Handbook of Industrial Crystallization*. Cambridge: Cambridge University Press, pp. 1–31.
- Silveira, J. C., Rodolfo J. B., Rondinelli M. L., Marcela V. C. M., Marcos A. S. B., and Claudio R. D. (2020). A Fluid Dynamic Study of the Active Phase Behavior in a Rotary Drum with Flights of Two and Three Segments. *Powder Technology* 368: 297–307. <https://doi.org/10.1016/j.powtec.2020.04.051>.
- Sinnott, R. and Towler, G. (2020). *Chemical Engineering Design in Coulson & Richardson’s Chemical Engineering Series*. 6th ed. Elsevier Butterworth-Heinemann.
- Sinnott, R. K. (2005). *Chemical Engineering: Chemical Engineering Volume 6 (Chemical Engineering Series)*. 4th edition. Elsevier Butterworth-Heinemann.
- Smith, J. M., Van Ness, H. C., Abbott, M. M., and Swihart, M. T. (1996). *Introduction to Chemical Engineering Thermodynamics*. 8th ed. New York: Mc Graw Hill.
- Stull, D. R. (1947). Vapor Pressure of Pure Substances. *Organic and Inorganic Compounds, Ind. Eng. Chem*, 39(4), 517-540. <https://doi.org/10.1021/ie50448a022>.
- Su, W., Tian, Y., & Peng, S. (2014). The influence of sodium hypochlorite biocide on the corrosion of carbon steel in reclaimed water used as circulating cooling water. *Applied Surface Science*, 315(1), 95–103. <https://doi.org/10.1016/j.apsusc.2014.07.095>.
- Suleiman, I. (2019). Development Of a Horizontal Shaft Hammer Mill Chapter 1-2 Design and Fabrication of a Cassava Drying Machine View project. December. <https://www.researchgate.net/publication/338124155>.
- Svrcek, W. Y., and Monnery, W. D. (1993). Design Two-Phase Separators Within the Right Limits. *Chemical Engineering Progres*, pp. 53-60.
- Thorat, B., Kataria, K., Kulkarni, A. V. and Joshi, J. B. (2001). Pressure Drop Studies in Bubble Columns. *Industrial & Engineering Chemistry Research*. 40(16). <https://doi.org/10.1021/ie000759j>.
- Treybal, R.E. (1981) *Mass-Transfer Operations*. Int ed. Singapore: McGraw-Hill Book Company.
- Ulrich, G. D. (1984). *A Guide to Chemical Engineering Process Design and Economics*. New York: John Willey & Son.
- Ulusal, A., & Avsar, C. (2021). Understanding caking phenomena in industrial fertilizers: A review. *Chemical and Biochemical Engineering Quarterly*, 34(4), 209–222.

- U.S. Coast Guard. (1984). Chemical Hazard Response Information System (CHRIS)-Hazardous Chemical Data, Vol II. Command Instruction 16465.12C. Washington D.C: U.S. Government Printing Office.
- Walas, S. M. (1990). Chemical Process Equipment Selection and Design. Butterworth-Heinemann, 313 Washington Street.
- Wang, P., Anderko, A., & Young, R. D. (2004). Modeling viscosity of concentrated and mixed-solvent electrolyte systems. *Fluid Phase Equilibria*, 226(1–2), 71–82. <https://doi.org/10.1016/j.fluid.2004.09.008>.
- Weather and Climate. (2023). The Global Historical Weather and Climate Data - Gresik Climate Summary. Available at: <https://weatherandclimate.com/indonesia/east-java/gresik> (Accessed: 5 Desember 2023).
- Winter, G. E. (2019). Transient Nuclear Criticality Analysis of Aqueous Fissile Solutions Using Point Nuclear Reactor Kinetics and Phenomenological Thermal-Hydraulic Feedback Model. *Journal: Imperial College London*.
- Xu, D., Zhong, B., Wang, X., Li, X., Zhong, Y., Yan, Z., Yang, J., Li, X., Wang, Y., & Zhou, X. (2022). The development road of ammonium phosphate fertilizer in China. *Chinese Journal of Chemical Engineering*, 41, 170–175. <https://doi.org/10.1016/j.cjche.2021.08.015>.
- Yaws, C. L. (1999). Chemical Properties Handbook. Texas: McGraw-Hill.
- Young, R.D., Hicks, G.C., & Daris, C.H. (1962). Fertilizer Technology, TVA Process for Production of Granular Diammonium Phosphate. *Journal of Agricultural and Food Chemistry*, 10, 442-447.